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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/829,474 04/09/2001		Douglas E. Chrzanowski	END919980129US2	8680	
7590 08/20/2004			EXAMINER		
IBM Corporation / IP Law N50/040-4			COLE, ELIZABETH M		
1701 North Street Endicott, NY 13760			ART UNIT	PAPER NUMBER	
			1771		

DATE MAILED: 08/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application I	lo.	Applicant(s)	
		09/829,474		CHRZANOWSKI ET AL.	
	Office Action Summary	Examiner	11	Art Unit	
		Elizabeth M. (Cole	1771	
Period fo	The MAILING DATE of this communication	appears on the co	ver sheet with the d	correspondence addres	is
A SH THE - Exte after - If the - If NO - Failt - Any	ORTENED STATUTORY PERIOD FOR RE MAILING DATE OF THIS COMMUNICATIO ensions of time may be available under the provisions of 37 CFF SIX (6) MONTHS from the mailing date of this communication. The period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per ure to reply within the set or extended period for reply will, by state that the provided by the Office later than three months after the material part of the provided by the Office later than three months after the material part of the provided by the Office later than three months after the material part of the provided by the Office later than three months after the material part of the provided by the Office later than three months after the material part of the provided by the Office later than three months after the material part of the provided by the Office later than three months after the material part of the provided by the Office later than three months after the material part of the provided by the Office later than three months after the provided by the Office later than three months after the material part of the provided by the Office later than three months after the material part of the provided by the Office later than three months after the provided by the Office later than three months after the provided by the Office later than three months after the provided by the Office later than three months after the provided by the Office later than three months after the provided by the Office later than three months after the provided by the Office later than three months after the provided by the Office later than three months after the provided by the Office later than three months after the provided by the Office later than three months after the provided by the Office later than three months after the provided by the Office later than three months after the provided by the Office later than three months after the provided by the Office later than three months after the provide	N. 1.136(a). In no event, he reply within the statutory ind will apply and will exputed. Cause the application.	owever, may a reply be tir minimum of thirty (30) day ire SIX (6) MONTHS from on to become ABANDONE	nely filed /s will be considered timely. the mailing date of this commu	nication.
1)⊠	Responsive to communication(s) filed on 6	8/16/03 .			
2a)□		This action is nor	ı-final.		
3) <u></u> Dispositi	Since this application is in condition for allo closed in accordance with the practice und ion of Claims	owance except for	formal matters, pr	rosecution as to the mo	erits is
4)⊠	Claim(s) 1-12 is/are pending in the applicat	ion.			
	4a) Of the above claim(s) is/are withd	rawn from consid	eration.		
5)	Claim(s) is/are allowed.				
6)⊠	Claim(s) 1-12 is/are rejected.				
7)	Claim(s) is/are objected to.				
8)□	Claim(s) are subject to restriction and	d/or election requi	rement.		
Applicati	on Papers				
9) 🗌 -	The specification is objected to by the Exami	ner.			
10) 🔲 -	Γhe drawing(s) filed on is/are: a)∏ ac	cepted or b)⊡ obj∈	cted to by the Exa	miner.	
	Applicant may not request that any objection to	the drawing(s) be I	neld in abeyance. So	ee 37 CFR 1.85(a).	
11)[The proposed drawing correction filed on	is: a)∏ appro	ved b)∐ disappro	ved by the Examiner.	
	If approved, corrected drawings are required in		action.		
	The oath or declaration is objected to by the	Examiner.			
	nder 35 U.S.C. §§ 119 and 120				
13)	Acknowledgment is made of a claim for fore	ign priority under	35 U.S.C. § 119(a)-(d) or (f).	
a)[☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority docume	nts have been re	ceived.		
	Certified copies of the priority docume	nts have been re	ceived in Application	on No	
	 Copies of the certified copies of the preparation of the International I application from the International I be the attached detailed Office action for a limit of the International I application for a limit of the III application of the III	Bureau (PCT Rule	17.2(a)).	•	e
14)∐ A	cknowledgment is made of a claim for dome	stic priority under	35 U.S.C. § 119(e) (to a provisional appl	ication).
a) 15)∐ A	☐ The translation of the foreign language packnowledgment is made of a claim for dome	rovisional applica	tion has been rece	eived.	·
Attachment	• •	_	_		
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	4) [5) [6) [Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)	
S. Patent and Tra TO-326 (Rev	* * * * * *	Action Summary		Part of Paper No. 0803	

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- 1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 6/16/03 has been entered.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. \Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 11-107,112, (Machine translation attached).

JP 11-107,112 discloses a woven fiber glass sheet which is suitable for use in laminating processes in forming circuit boards. JP 11-107, 112 differs from the claimed invention because it is does not teach that the spaces between the fibers of the sheet should be less than or equal to the diameter of a wire positioned on the surface of the sheet. However, JP 11-107,112 does teach optimizing the weave density of the fiber glass cloth in order to increase the accuracy and efficiency of circuit boards which employ the fiber glass cloth. Therefore, it would have been obvious to have optimized the spacing between the fibers as taught by JP 11-107,112. One of ordinary skill in the art would have been motivated to optimize the spacing between the fibers in order to enhance the efficiency of processes which employ the glass cloth, since JP 11-107,112 recognizes that the weave density is a result effective variable. With regard to the new

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limitation, since JP '112 teaches optimizing the spacing to avoid variations in the molded product, it would therefore teach optimizing to prevent deformation of the circuit device, since the molded product in JP '112 is a circuit board.

- 4. Applicant's arguments filed 6/16/03 have been fully considered but they are not persuasive. Applicant argues that JP '112 does not teach selecting the spaces between the fibers to prevent deformation of the circuit device during the wire bonding process. However, the reference does not have to teach optimizing the space between the fibers for the same reason as the claimed invention. Further, JP '112 does teach optimizing the spacing in order to reduce variations in molding time and in the dimensions of the molded product. Since JP '112 does teach forming circuit boards, it seems that JP '112 is teaching optimizing the spacing in order to prevent variations in the circuit device. A variation in the circuit device which is not wanted in the final molded product would be the same as a deformation in the circuit device.
- 5. It is noted that the status modifier "Previously amended" should not be used, but instead "previously presented" should be used for those claims, (claims 4-5, 10-11).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth M. Cole whose telephone number is (571) 272-1475. The examiner may be reached between 6:30 AM and 6:00 PM Monday through Wednesday, and 6:30 AM and 2 PM on Thursday.

Mr. Terrel Morris, the examiner's supervisor, may be reached at (571) 272-1478.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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The fax number for all official faxes is (703) 872-9306.

Elizabeth M. Cole Primary Examiner Art Unit 1771

e.m.c